TABLE 8-1

Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2018 (Thousands of U.S. dollars)

Industry	NAICS code	Total	Salaries, wages, an fringe benefits	id	Expense machine and equipme	ry	Materials and supplies	Payments others for R&D		Depreciati on R&D property a equipmen	nd	All other costs
All selected industries	31-33, 42, 51, 5413, 5415, 5417	5,766,729	2,818,156		163,888		425,260	1,239,892		60,036		1,059,498
Manufacturing industries	31-33	655,018	325,923		47,471		74,693	99,342		8,733		98,855
Food, beverage, and tobacco products	311-12	D	D		0		D	D		0		D
Textile, apparel, and leather products	313-16	1,025	r 770	r	D		D	D		0		0
Wood products	321	0	0		0		0	0		0		0
Paper	322	0	0		0		0	0		0		0
Printing and related support activities	323	D	D		D		D	D		0		D
Petroleum and coal products	324	D	D		D		D	D		0		D
Chemicals	325	125,099	46,701		11,377	r	11,951	38,827		962		15,280
Pharmaceuticals and medicines	3254	92,531	29,778		3,233		9,798	37,950		709		11,063
Chemicals, excluding pharmaceuticals	other 325	32,568	16,923		8,144	r	2,153	877	r	254		4,217
Plastics and rubber products	326	0	0		0		0	0		0		C
Nonmetallic mineral products	327	5,500	r 3,170	r	436	r	683 1	341	r	D		445
Primary metals	331	0	0		0		0	0		0		(
Fabricated metal products	332	2,929	D		D		D	D		D		
Machinery	333	49,419	25,497		2,247	r	11,493 ι	6,987	r	D		2,748
Computer and electronic products	334	331,600	190,494		27,263		33,353	27,889		5,647		46,954
Semiconductor and other electronic components	3344	59,688	43,243		1,665		3,073	2,875		574	r	8,259
Navigational, measuring, electromedical, and control instruments	3345	223,576	116,839		24,572		24,959	22,872		4,598		29,736
Other computer and electronic products	other 334	48,336	30,412		1,026		5,321	2,142		476		8,959
Electrical equipment, appliances, and components	335	30,428	18,784		1,251	r	3,645	2,473	r	447	r	3,828
Transportation equipment	336	14,405	7,118		1,384		2,071	1,426		335		2,071
Aerospace products and parts	3364	11,150	5,152		1,233		1,558	969		275		1,963
Other transportation equipment	other 336	D	D		D		D	D		D		С
Furniture and related products	337	0	0		0		0	0		0		C
Miscellaneous manufacturing	339	90,544	30,247		2,397		10,432	20,624		434	r	26,410
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,111,711	2,492,233		116,416		350,567	1,140,549		51,303		960,643
Wholesale trade	42	227,178	119,051		4,840	r	8,892	43,646	r	D		50,052
Information	51	538,573	431,564	_	9,725		10,431	20,483		1,932		64,438
Software publishers	5112	382,680	314,643		6,801		5,029	14,391		1,276		40,539

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Domestic R&D costs, by selected industry and type of cost, for companies with 1–9 employees: 2018 (Thousands of U.S. dollars)

Industry	NAICS code	Total	Salaries, wages, and fringe benefits	Expensed machinery and equipment	and	Payments to others for R&D	Depreciation on R&D property and equipment	All other costs
Information, excluding software publishers	51, excluding 5112	155,893	116,921	2,923	5,402	6,092	655 r	23,899
Architectural, engineering, and related services	5413	446,173	229,675	14,068	58,120	34,186	6,525	103,598
Computer systems design and related services	5415	1,122,849	733,908	31,402	46,745	85,268	11,068	214,458
Scientific research and development services	5417	2,776,938	978,035	56,382	226,379	956,966	31,081	528,095
Research and development in nanotechnology	541713	331,590	175,622	11,052	31,125	38,824	6,154	68,812
Research and development in biotechnology (except nanobiotechnology)	541714	1,307,901	318,847	11,996	86,881	651,322	9,217	229,638
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,102,490	466,911	32,562	105,618	260,793	15,139	221,466
Social sciences and humanities research and development	541720	14,839	8,282	250 r	541	D	D	2,877

D = withheld to avoid disclosing data for individual companies; data are included in higher-level totals. r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

## Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

## Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.